

Kerr-McGee Residential Areas Site

Slides from EPA Presentation at
Proposed Plan Public Meeting
July 29, 2003
7 p.m.
West Chicago City Hall

Kerr-McGee Residential Areas Site Proposed Plan

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Purpose

- Present a brief history of the Residential Areas Site
- Present a summary of the Remedial Investigation
- Describe the ongoing cleanup at the site
- Describe EPA's Proposed Plan for the site

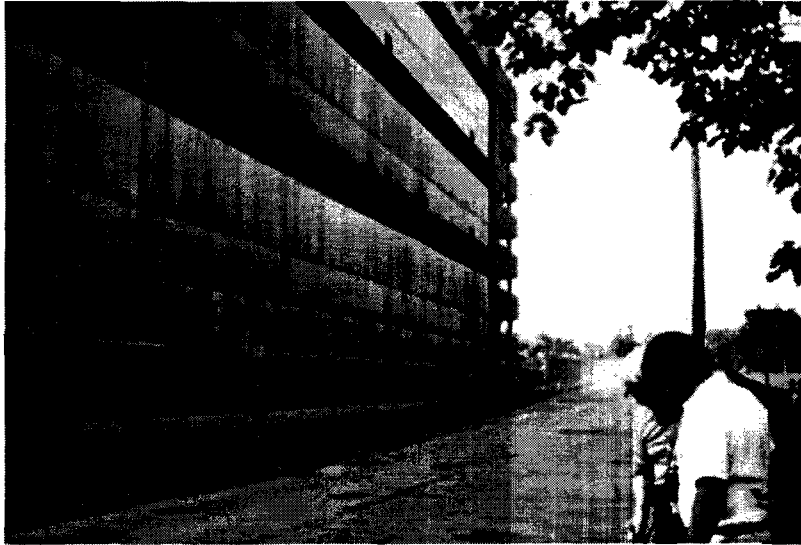
Public Participation

- U.S. EPA will accept comments on the Proposed Plan until August 11, 2003
- A Responsiveness Summary will be included in the Record of Decision
- The proposed cleanup plan may be modified based upon comments received

Kerr-McGee Residential Areas Site Description

- Includes 2,174 individual properties
- Located inside & outside of city limits
- Primarily residential, but includes other types of properties (schools, businesses)

Site History



- Properties became contaminated by:

1. Windblown contamination from factory (1932-1973)
2. Use of thorium wastes as fill material

Site History

- Kerr-McGee and City of West Chicago conducted voluntary cleanup in 1984-85
- Used less-stringent cleanup standard than current EPA standard
- Cleaned up most highly-contaminated materials from properties within City limits
- Other contamination remained

Site History

- Residential Areas Site placed on the National Priorities List – 1990
- EPA established cleanup standards – 1993*
- EPA decided to speed-up site cleanup
- Conducted EE/CA – 1994*
- Removal action started – 1995

* Public participation/ public comment

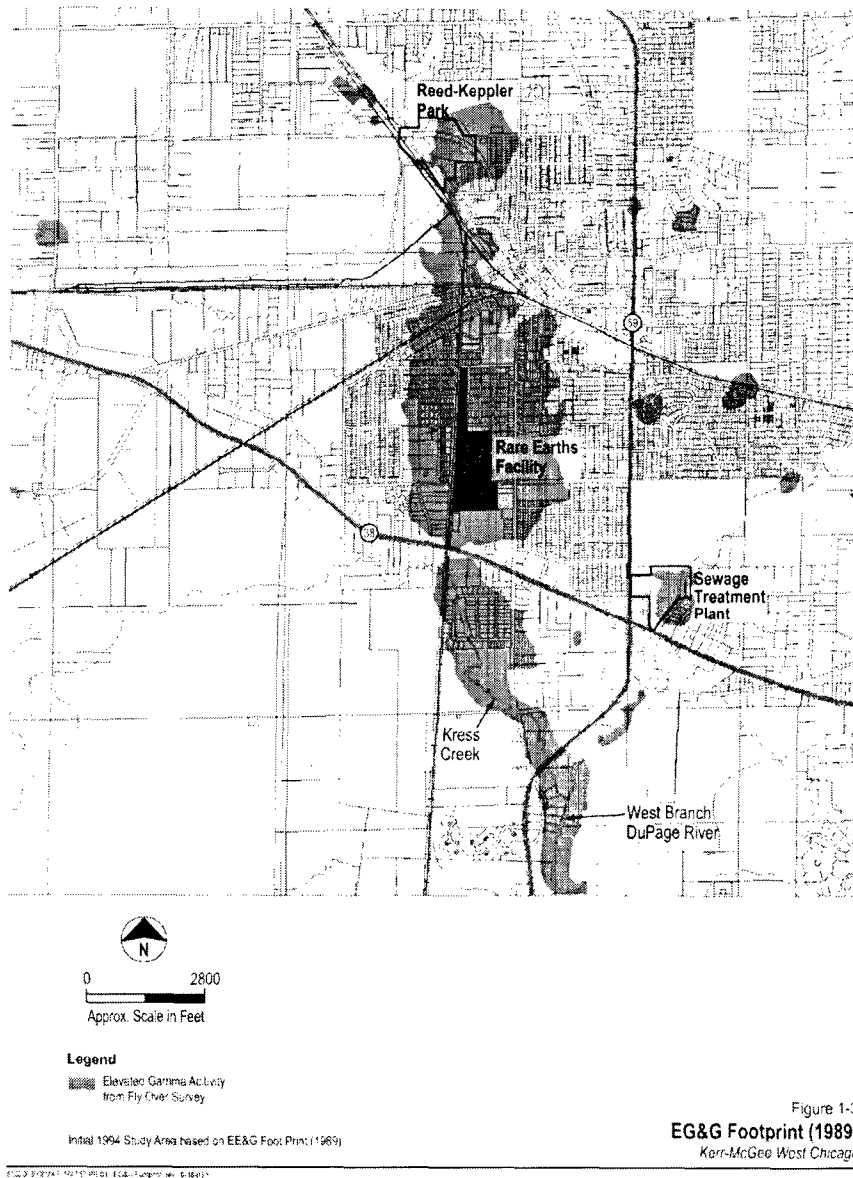
Remedial Investigation (RI)

- EPA initiated RI fieldwork in 1994
- Radiation walkover surveys
- Soil samples if needed
- Indoor testing at some properties



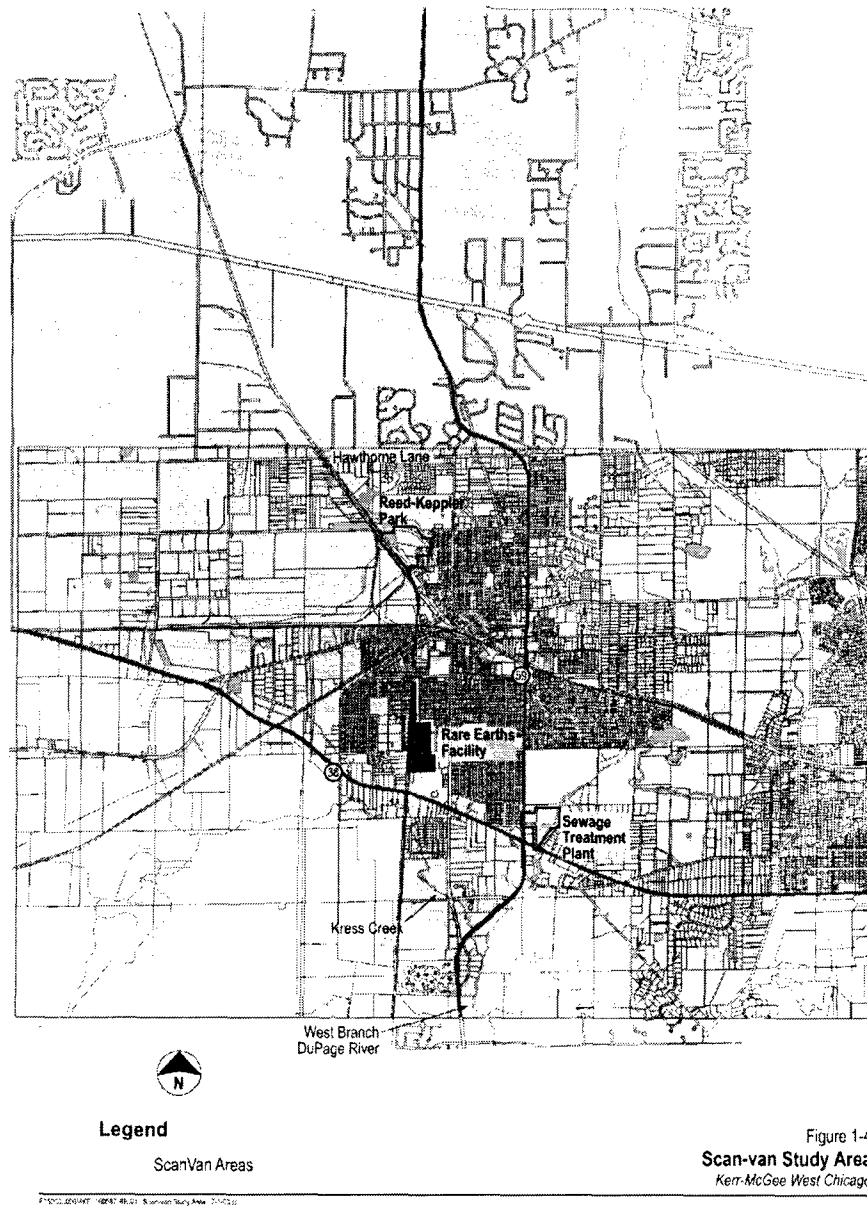
EPA's Original Site Study Area

- 1989 Flyover Survey
- Approximately 1,300 properties

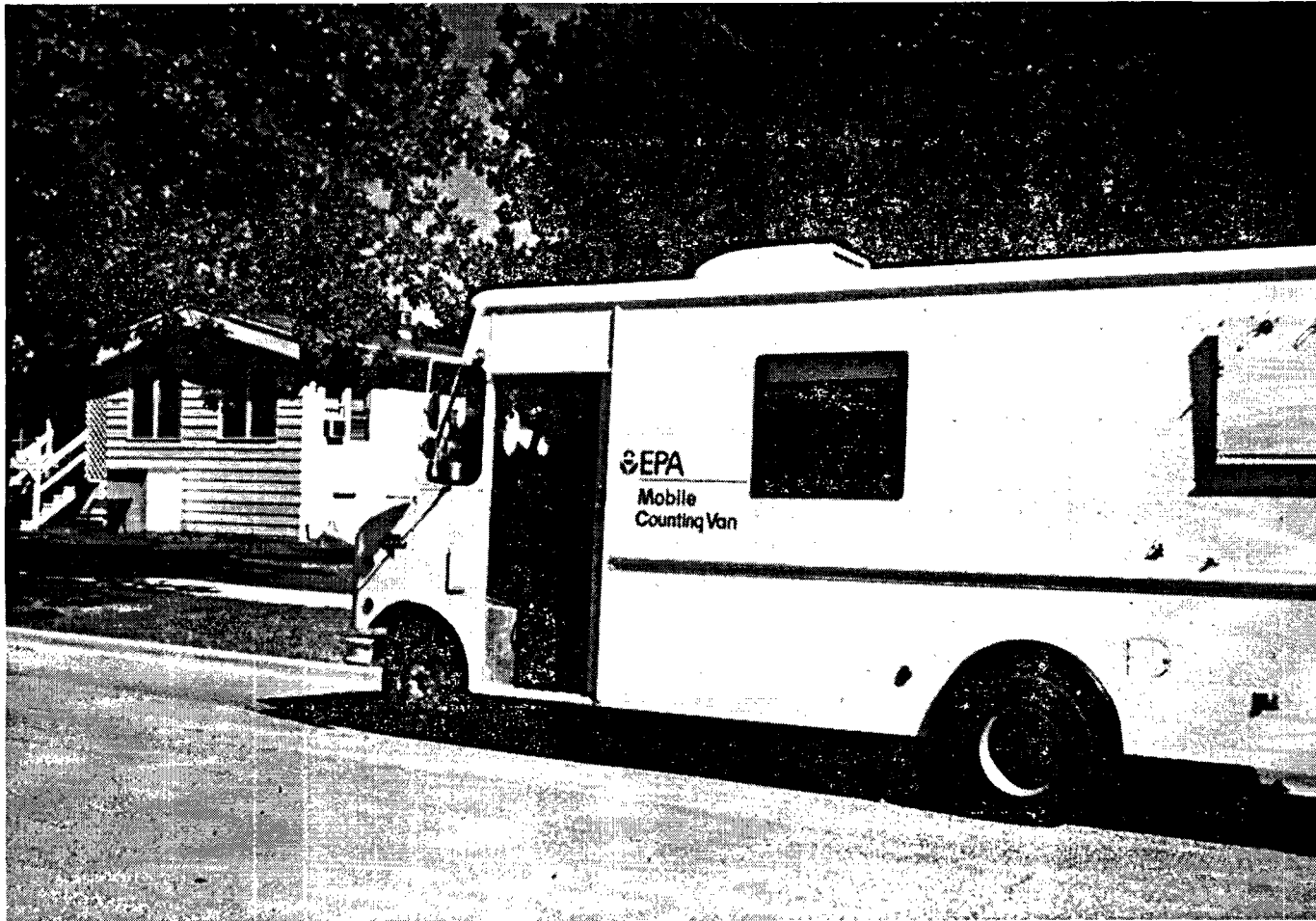


EPA Scanner Van Surveys

- 1995 Scanner Van survey found some “anomalies”
- 1996 Scanner Van survey found none



EPA Scanner Van

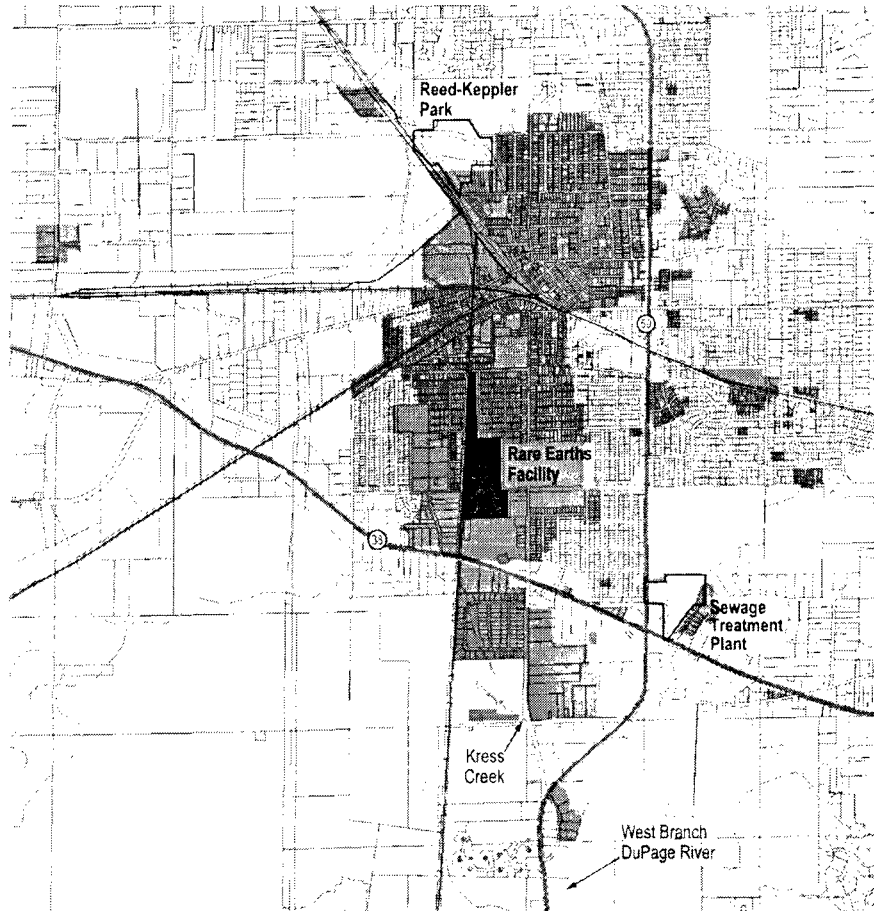


EPA Scanner Van



Expanded Site Study Area

- EPA expanded study area in 1998
- Included scanner van findings
- Included other areas identified by City and State
- 2,174 properties



Legend


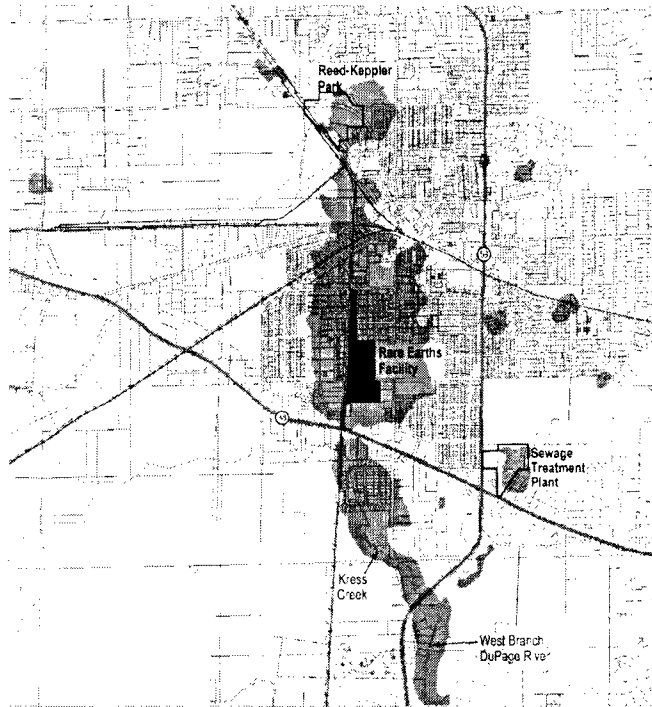
 EPA's Approximate Site Study Area

Figure 1-5
Gamma Survey Study Area
Ken-McGee West Chicago

Environmental Health Risk Assessment Project

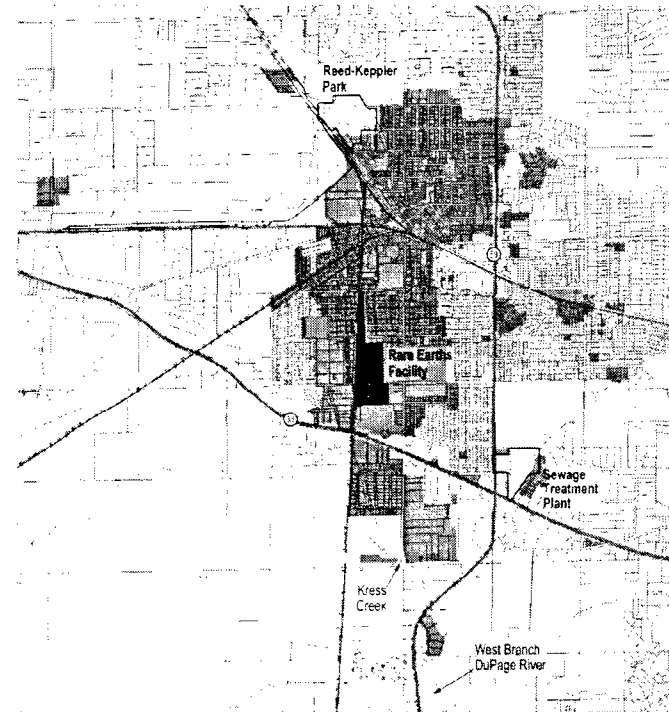
Original vs. Expanded Study Area



Legend
Elevated gamma activity
from Fly Over Survey

Initial 1994 Study Area based on CEISO Foot Print (1989)

Figure 1-3
EG&G Footprint (1989)
Ken-McGee West Chicago



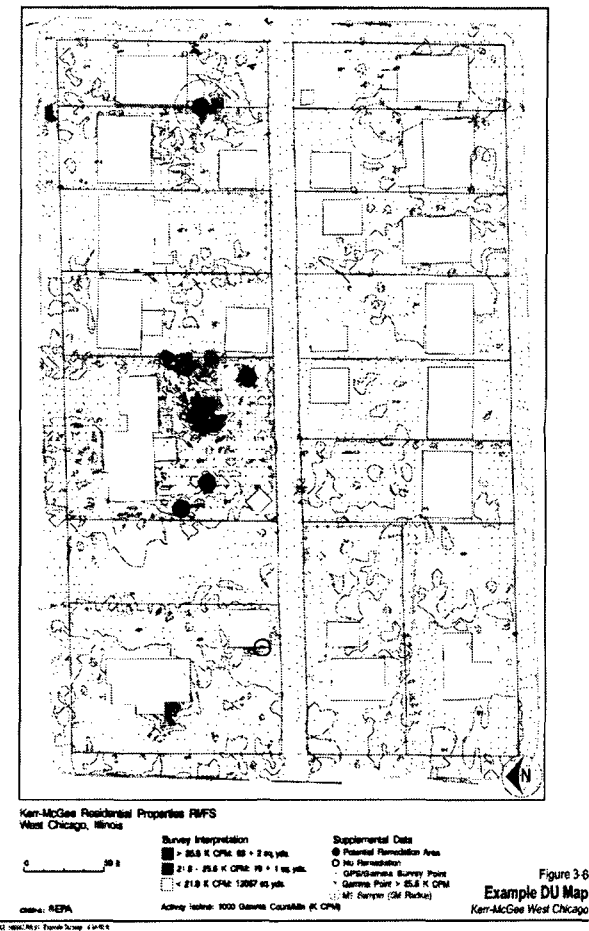
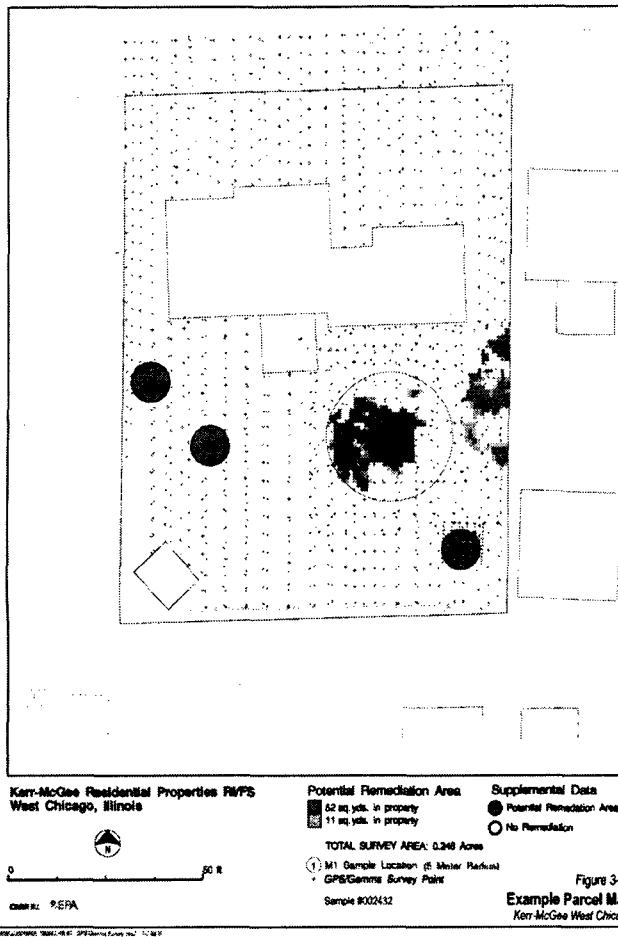
Legend
EPA's Approximate Site Study Area

Figure 1-5
Gamma Survey Study Area
Ken-McGee West Chicago

Example Results Maps:

Property

Block



Summary of RI Results

- Number of Properties in Study Area – 2,174
- Number of Properties Tested to date – 2,171
- Number of Contaminated Properties – 676

Removal Action - Steps

- EPA identifies contaminated properties
- Kerr-McGee designs cleanup
- Owner & KM sign property Work Order
- KM digs up contaminated soil
- IDNS verifies cleanup met EPA standards
- EPA notifies KM that standards met
- Kerr-McGee backfills & restores property

Property During Cleanup



Property During Cleanup



IDNS Verification



Backfilling with Clean Soil



Property Restoration



Property After Restoration



Property During Cleanup



Property After Restoration



Removal Action

- Kerr-McGee began cleanup in Spring 1995
- Expect completion this year
- 670 properties cleaned up so far
- 110,627 cubic yards of soil removed
- Kerr-McGee will submit a Final Removal Report when cleanup is done

Remedial Investigation Findings

- Removal action meeting 7.2 pCi/g cleanup standard, which is considered protective of human health & the environment
- Average of 2,604 verification samples was 2.9 pCi/g – well below cleanup standard
- More info in final RI Report – July 2003

Proposed Plan

- Because current cleanup is achieving protective levels, after the ongoing removal action is completed EPA proposes:

NO FURTHER ACTION AT SITE



Community Participation

- Oral Comments will be accepted following the Q&A session
- Written comments will be accepted by EPA until August 11, 2003
- Administrative Record is available at Region 5 Records Center in Chicago
- More info available in local Information Repository - West Chicago Public Library

U.S. EPA Community Contact

Stuart Hill

Office of Public Affairs

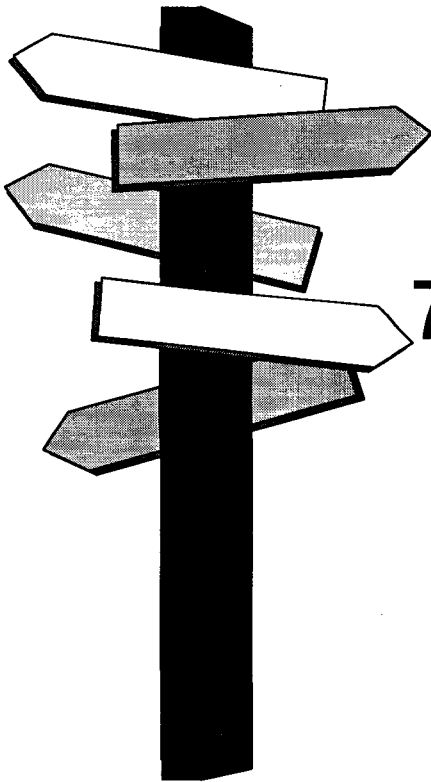
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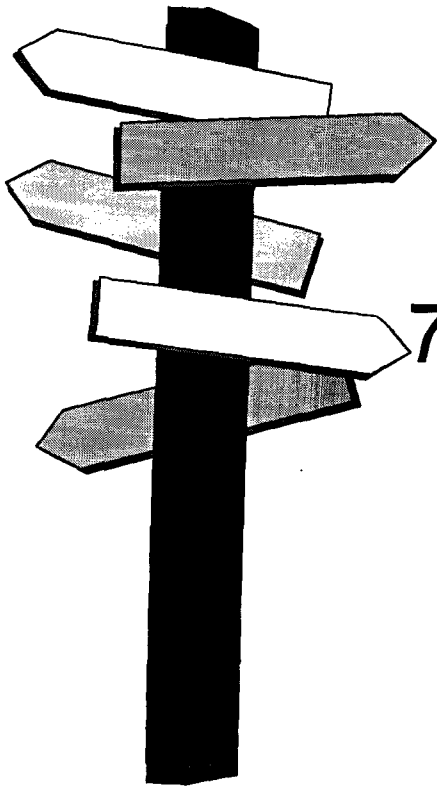
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Want Your Property Tested?

For Properties Outside EPA's Study Area:

Contact:

Tim Runyon

IDNS

217-786-6365

Question & Answer Session